

CLAIMS

What is claimed is:

1. A system for destabilizing improvised explosive

5 devices, comprising:

a radio transmitter means for generating a radio
signal having (i) a selected carrier frequency,
(ii) a selected amplitude modulation frequency,
(iii) a selected peak power output, and (iv) a
10 selected transmit duration; and

a directional antenna means coupled to and fed by said
radio transmitter means, for directing said radio
signal onto a suspected improvised explosive
device,

15 wherein said radio signal, upon being directed onto said
suspected improvised explosive device, causes detonation of
the device.

2. The system of claim 1, wherein said selected carrier
20 frequency is in a range of 1 GHz to 4GHz.

3. The system of claim 1, wherein said selected amplitude
modulation frequency is approximately 50 MHz.

4. The system of claim 1, wherein said selected peak power output is in a range of 1 KW to 2 KW.

5. The system of claim 1, wherein said selected transmit
5 duration is in a range of 50 ms to 100 ms.

6. A system for destabilizing improvised explosive devices, comprising:

a radio transmitter means for generating a radio
10 signal, having (i) a selected carrier frequency,
(ii) a selected amplitude modulation frequency,
(iii) a selected peak power output, and (iv) a
selected transmit duration, with said radio
transmitter means including a power supply,
15 control electronics, and a RF transmitter
generator;

a hand-held directional antenna means coupled to and
fed by said radio transmitter means, for
directing said radio signal onto a suspected
20 improvised explosive device; and

a portable backpack for carrying said radio
transmitter means,

wherein said radio signal, upon being directed onto

said suspected improvised explosive device, causes
detonation of the device.

7. The system of claim 6, wherein said selected carrier
5 frequency is in a range of 1 GHz to 4GHz.

8. The system of claim 6, wherein said selected amplitude
modulation frequency is approximately 50 MHz.

10 9. The system of claim 6, wherein said selected peak
power output is in a range of 1 KW to 2 KW.

10. The system of claim 6, wherein said selected transmit
duration is in a range of 50 ms to 100 ms.

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11. A method for destabilizing improvised explosive
devices, comprising the steps of:

identifying a suspected improvised explosive device;
generating a radio signal having (i) a carrier

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frequency in a range of 1 GHz to 4 GHz, (ii) an
amplitude modulation frequency of approximately
50 MHz, (iii) a peak power output in a range of 1
KW to 2 KW, and (iv) a transmit duration in a
range of 50 ms to 100 ms; and

directing said radio signal onto said suspected
improvised explosive device,
wherein said radio signal, upon being directed onto said
suspected improvised explosive device, causes detonation of
5 the device by way of an electromagnetic disruption and
triggering effect thereon.